

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1 1. (Original) An apparatus for connecting a first optical connector to a second optical
2 connector, the apparatus comprising:
 - 3 a) a housing having at least a first end and at least a second end, the first end of the
4 housing capable of receiving the first optical connector, and the second end of
5 the housing capable of receiving the second optical connector;
 - 6 b) a longitudinal cavity extending from the first end of the housing to the second
7 end of the housing; and
 - 8 c) an electromagnetic shield involved in at least a portion of the housing.
- 1 2. (Original) An apparatus as in claim 1, wherein the electromagnetic shield comprises a
2 metallic coating on at least a portion of the housing.
- 1 3. (Original) An apparatus as in claim 1, wherein the longitudinal cavity is capable of
2 facilitating the alignment of the first optical connector and the second optical connector.
- 1 4. (Original) An apparatus as in claim 3, further comprising alignment guides inside the
2 longitudinal cavity of the housing, the alignment guides capable of aligning the first
3 optical connector to the second optical connector.
- 1 5. (Original) An apparatus as in claim 1, further comprising alignment wings adapted to
2 the second end of the housing, the wings capable of holding the second optical
3 connector.

- 1 6. (Original) An apparatus as in claim 1, further comprising a cavity at the first end of the
2 housing, the cavity functioning to house at least optoelectronic circuitry used in
3 connection with the first optical connector.
- 1 7. (Original) An apparatus as in claim 6, wherein the cavity houses at least a portion of a
2 flexible printed circuit board that is adapted to a mounting structure.
- 1 8. (Original) An apparatus as in claim 1, further comprising tabs adapted to the first end
2 of the housing, the tabs capable of mating with slots on a mounting structure.
- 1 9. (Original) An apparatus as in claim 1, further comprising alignment pins adapted to the
2 first end of the housing, the alignment pins capable of mating with pin-positioning holes
3 on a mounting structure.
- 1 10. (Original) An apparatus as in claim 1, further comprising pin-positioning holes adapted
2 to the first end of the housing, the pin-positioning holes capable of mating with
3 alignment pins on a mounting structure.
- 1 11. (Original) An apparatus as in claim 1, further comprising screws adapted to the first
2 end of the housing, the screws capable of mating with screw holes on a mounting
3 structure.
- 1 12. (Original) An apparatus as in claim 1, further comprising screw holes adapted to the
2 first end of the housing, the screw holes capable of mating with screws on a mounting
3 structure.
- 1 13. (Original) An apparatus as in claim 1, wherein the first and second optical connectors
2 are MT-type connectors.
- 1 14. (Original) An apparatus as in claim 1, wherein the first and second optical connectors
2 are ferrules.

- 1 15. (Original) An apparatus as in claim 14, wherein the first and second optical connectors
2 are MT-type ferrules.
- 1 16. (Original) An apparatus for connecting a first optical connector to a second optical
2 connector, the apparatus comprising:
3 a) a housing having at least a first end and at least a second end, the first end of the
4 housing capable of receiving the first optical connector, and the second end of
5 the housing capable of receiving the second optical connector;
6 b) a longitudinal cavity extending from the first end of the housing to the second
7 end of the housing; and
8 c) an elastomeric member proximate to the first end of the housing and capable of
9 generating an outward elastomeric force.
- 1 17. (Original) An apparatus as in claim 16, wherein the elastomeric member capable of
2 facilitating the connection of the housing to a mounting structure.
- 1 18. (Original) An apparatus as in claim 16, wherein the longitudinal cavity is capable of
2 facilitating the alignment of the first optical connector and the second optical connector.
- 1 19. (Original) An apparatus as in claim 18, further comprising alignment guides inside the
2 longitudinal cavity of the housing, the alignment guides capable of aligning the first
3 optical connector to the second optical connector.
- 1 20. (Original) An apparatus as in claim 16, further comprising alignment wings adapted to
2 the second end of the housing, the wings capable of holding the second optical
3 connector.
- 1 21. (Original) An apparatus as in claim 16, further comprising a cavity at the first end of
2 the housing, the cavity functioning to house at least optoelectronic circuitry used in
3 connection with the first optical connector.

- 1 22. (Original) An apparatus as in claim 21, wherein the cavity houses at least a portion of a
2 flexible printed circuit board that is adapted to a mounting structure.
- 1 23. (Original) An apparatus as in claim 16, further comprising tabs adapted to the first end
2 of the housing, the tabs capable of mating with slots on a mounting structure.
- 1 24. (Original) An apparatus as in claim 16, further comprising alignment pins adapted to
2 the first end of the housing, the alignment pins capable of mating with pin-positioning
3 holes on a mounting structure.
- 1 25. (Original) An apparatus as in claim 16, further comprising pin-positioning holes
2 adapted to the first end of the housing, the pin-positioning holes capable of mating with
3 alignment pins on a mounting structure.
- 1 26. (Original) An apparatus as in claim 16, further comprising screws adapted to the first
2 end of the housing, the screws functioning to mate with screw holes on a mounting
3 structure.
- 1 27. (Original) An apparatus as in claim 16, further comprising screw holes adapted to the
2 first end of the housing, the screw holes functioning to mate with screws on a mounting
3 structure.
- 1 28. (Original) An apparatus as in claim 16, wherein the first and second optical connectors
2 are MT-type connectors.
- 1 29. (Original) An apparatus as in claim 16, wherein the first and second optical connectors
2 are ferrules.
- 1 30. (Original) An apparatus as in claim 29, wherein the first and second optical connectors
2 are MT-type ferrules.

1 31. (Original) An apparatus for connecting a first optical connector to a second optical
2 connector, the first optical connector adapted to a mounting structure and the second
3 optical connector adapted to one end of a fiber optic cable, the apparatus comprising:

4 a) a housing having at least a first end and at least a second end, the first end of the
5 housing capable of receiving the first optical connector, and the second end of
6 the housing capable of receiving the second optical connector;

7 b) a longitudinal cavity extending from the first end of the housing to the second
8 end of the housing; and

9 c) alignment members adapted to a first end of the longitudinal cavity, the
10 alignment members capable of positioning the first optical connector in
11 alignment with the second optical connector.

1 32. (Original) An apparatus as in claim 31, wherein the alignment members function to
2 hold and align the position of the first optical connector relative to the position of the
3 housing.

1 33. (Original) An apparatus as in claim 31, wherein the longitudinal cavity is capable of
2 facilitating the alignment of the first optical connector and the second optical connector.

1 34. (Original) An apparatus as in claim 31, further comprising alignment guides inside the
2 longitudinal cavity of the housing, the alignment guides capable of aligning the first
3 optical connector to the second optical connector.

1 35. (Original) An apparatus as in claim 31, further comprising alignment wings adapted to
2 the second end of the housing, the wings capable of holding the second optical
3 connector.

1 36. (Original) An apparatus as in claim 31, further comprising a cavity at the first end of
2 the housing, the cavity functioning to house at least optoelectronic circuitry used in
3 connection with the first optical connector.

1 37. (Original) An apparatus as in claim 36, wherein the cavity houses at least a portion of a
2 flexible printed circuit board that is adapted to a mounting structure.

1 38. (Original) An apparatus as in claim 31, further comprising tabs adapted to the first end
2 of the housing, the tabs capable of mating with slots on a mounting structure.

1 39. (Original) An apparatus as in claim 31, further comprising alignment pins adapted to
2 the first end of the housing, the alignment pins capable of mating with pin-positioning
3 holes on a mounting structure.

1 40. (Original) An apparatus as in claim 31, further comprising pin-positioning holes
2 adapted to the first end of the housing, the pin-positioning holes capable of mating with
3 alignment pins on a mounting structure.

1 41. (Original) An apparatus as in claim 31, further comprising screws adapted to the first
2 end of the housing, the screws capable of mating with screw holes on a mounting
3 structure.

1 42. (Original) An apparatus as in claim 31, further comprising screw holes adapted to the
2 first end of the housing, the screw holes capable of mating with screws on a mounting
3 structure.

1 43. (Original) An apparatus as in claim 31, wherein the first and second optical connectors
2 are MT-type connectors.

1 44. (Original) An apparatus as in claim 31, wherein the first and second optical connectors
2 are ferrules.

1 45. (Original) An apparatus as in claim 44, wherein the first and second optical connectors
2 are MT-type ferrules.

- 1 46. (Original) An apparatus for housing a flexible printed circuit board, the apparatus
2 comprising:
- 3 a) a mounting structure having at least a first surface and a second surface;
4 b) alignment ridges along the first and second surfaces of the mounting structure,
5 the alignment ridges capable of securing a flexible printed circuit board that is
6 wrapped around and attached to the first and second surfaces of the mounting
7 structure; and
8 c) a series of heat sink ridges adapted to the mounting structure, the heat sink
9 ridges functioning to dissipate heat that is generated from the flexible printed
10 circuit board.
- 1 47. (Original) An apparatus as in claim 46, further comprising a cavity in a first end of the
2 mounting structure, the cavity capable of housing at least a portion of the flexible
3 printed circuit board that is wrapped around and attached to the mounting structure.
- 1 48. (Original) An apparatus as in claim 46, further comprising slots adapted to a first end
2 of a mounting structure, the slots capable of receiving tabs from a housing,.
- 1 49. (Original) An apparatus as in claim 46, further comprising pin-positioning holes on a
2 first end of the mounting structure, the pin-positioning holes capable of receiving
3 alignment pins from a housing.
- 1 50. (Original) An apparatus as in claim 46, further comprising screw holes on the first end
2 of the mounting structure, the screw holes capable of receiving screws from an housing.
- 1 51. (Original) An apparatus as in claim 46, further comprising screws adapted to a first end
2 of the housing, the screws capable of mating with screw holes on a mounting structure.